



## SEQUENCE LISTING

<110> HENKIN, TINA M.  
GRUNDY, FRANK J.

<120> IN VITRO TRANSCRIPTION ASSAY FOR T BOX ANTITERMINATION  
SYSTEM

<130> 22727-04130

<140> 10/617,979

<141> 2003-07-11

<150> 60/395,081

<151> 2002-07-11

<160> 37

<170> PatentIn Ver. 3.2

<210> 1

<211> 223

<212> RNA

<213> Bacillus subtilis

<400> 1

```
auuauaaaau auguugcagu gagagaaaga aguacuugcg uuuaaccucau gaaagcgacc 60
uuagggcggu gaaagcuaag gaugagcacg caacgaaagg cauucuugag caauuuuaaa 120
aaagaggcug ggauuuuguu cucagcaacu aggguggaac cgcgggagaa cucucguccc 180
uauguuugcg gcuggcaagc auagagacgg gaguuuuuug guu                223
```

<210> 2

<211> 274

<212> RNA

<213> Bacillus subtilis

<400> 2

```
agcuucauau gaaaagguaa agauugagac aaguagaaua uccuuacguu ccagagagcu 60
gauggccggu gaaaauacagc acagacggau auaucgaaua cacucaugaa ccgcuuuugc 120
aaacaaagcc ggccaggcgu ucaguaguga aagaacggac cugauccguu aucaggcaaa 180
gugauaagac gaauguuugc auucucuau uaguagggug guaccgcgau aaucaaucgu 240
cccuucgugu aaacgaaggg gcguuuuuua uuuu                274
```

<210> 3

<211> 243

<212> DNA

<213> Bacillus subtilis

<400> 3

```
agcttcatat gaaaaggtaa agattgagac aagtagaata tccttacgtt ccagagagct 60
gatggccggt gaaaatcagc acagacggat atatcgaata cactcatgaa ccgcttttgc 120
aaacaaagcc ggccaggcgt tcagtagtga aagaacggac ctgatccgtt atcaggaaag 180
```

tgataagacg aatgtttgca ttctcttatt agtaggggtgg taccgcgata atcaatcgtc 240  
cct 243

<210> 4  
<211> 174  
<212> DNA  
<213> *Bacillus anthracis*

<400> 4  
attattaata taagtagcga tgacggactt ataagtactt gcacaaaaag cgattcaggg 60  
atagtgaag cctgaagccg caaggaaacg gcagtctcga gcaatacgtg ataaagtgga 120  
tgacaccttt gtgtatcaac taggggtggaa ccgcgggcaa acgctcgtcc ctag 174

<210> 5  
<211> 174  
<212> DNA  
<213> *Bacillus cereus*

<400> 5  
attattaata taagtagcga tgacggactt ataagtactt gcacaaaaag cgattcaggg 60  
atagtgaag cctgaagccg caaggaaacg gcagtctcga gcaatacgtg ataaagtgga 120  
tgacaccttt gtgtatcaac taggggtggaa ccgcgggcaa acgctcgtcc ctag 174

<210> 6  
<211> 192  
<212> DNA  
<213> *Bacillus halodurans*

<400> 6  
aatgttatat ttcaatgcta tgacggagaa cagtacttga ttccttttac ataaaagcga 60  
acctaggatg gtgagagcta gggatgtaaa catcaaggaa ggcactcttg agcatgaacg 120  
atgaaaagaa agtggcctat ggtgtcatca taggcaaata ggggtggaacc gcgggttaac 180  
tctcgtccct at 192

<210> 7  
<211> 189  
<212> DNA  
<213> *Bacillus stearothermophilus*

<400> 7  
aaatcatata tggatcgcca tgacggatca atagtagtta accctctctt cccaagcgag 60  
ccggggacgg tggaagcccg gcgaagatgg ttaatgaaac ggcagtccgg agcggaaatg 120  
gcaaaaagg gatgcgtgat ttgcgcatca actagggtgg aaccgcggga gctacgctct 180  
cgtccctag 189

<210> 8  
<211> 183  
<212> DNA  
<213> *Bacillus subtilis*

&lt;400&gt; 8

tattattaaa tatgttgacg tgagagaaaag aagtacttgc gtttacctca tgaaagcgac 60  
 cttagggcgg tgtaagctaa ggatgagcac gcaacgaaaag gcattcttga gcaattttaa 120  
 aaaagaggct gggattttgt tctcagcaac tagggtggaa ccgcgggaga actctcgtcc 180  
 cta 183

&lt;210&gt; 9

&lt;211&gt; 173

&lt;212&gt; DNA

<213> *Clostridium acetobutylicum*

&lt;400&gt; 9

ataatttaaat atctatacaa tgacaaagat agaaattgta ttttcttcaa agagaggctg 60  
 tggagggtgt aaacgggtcaa gaaaattcag tagtggagtc tttcgagtat ttttaaaaga 120  
 aaagcagggc tattgccaat aagggtggaa ccgcggaagt aatttcgtcc ctt 173

&lt;210&gt; 10

&lt;211&gt; 214

&lt;212&gt; DNA

<213> *Carboxydotherrus hydrogenoformans*

&lt;400&gt; 10

aattaataat ggattggcag tgaaccggag gagtagctgt gatttcctt aaagagagcc 60  
 gggggctggt gtgaaccggt agggataaac ggtgaaggcg ccggggagcc ggcaggagga 120  
 aaccccaagg ggagtaaagc ctgcagagtt ttgagggtggg ccttttttgg ccaaccaggg 180  
 tgaaccgcg gaaggatgcc cctttcgtcc ctgg 214

&lt;210&gt; 11

&lt;211&gt; 176

&lt;212&gt; DNA

<213> *Deinococcus radiodurans*

&lt;400&gt; 11

ggaggcggtt aaccgcagga gtaccgcgaa gagcccccaa cgagcgagcc tgagacgggtg 60  
 agagtcaggc aggggtgaggc gcgacgggaa aggcagcggg gagccacaac cgggtctgaaa 120  
 ggtgctggcg agggccagaa ctgggggtgga accgcgcatg tcccgtgcgt ccccg 176

&lt;210&gt; 12

&lt;211&gt; 177

&lt;212&gt; DNA

<213> *Enterococcus faecalis*

&lt;400&gt; 12

gagaagttaa atacgtacga agaaaaagag aagtaaaaag aaccctctgt taagcgaatc 60  
 tgggagagtg ggagccagaa acacggaact tttgaaaggc actttggagt acgacaaacg 120  
 aagctgccga tgaacacatc ggaagtaggg tggaaccgcg ataattattc gtcccta 177

<210> 13  
 <211> 151  
 <212> DNA  
 <213> *Lactococcus lactis*

<400> 13  
 gccttgacaa aatgggaaaa tagagctaga atttataggt agcgactcga agatagtga 60  
 agttcgagaa caataatggc ttaacttaaa actgtaatga acacaaataa agtaaaaaat 120  
 aaaggtggaa ccgtgcattt gcaccctttg t 151

<210> 14  
 <211> 184  
 <212> DNA  
 <213> *Listeria monocytogenes*

<400> 14  
 atatcaacta ataggtacgt tgaaggaaaa tagtaacaaa aagctctatt tttagcgagt 60  
 ccgggttttg tgtgagccgg atattttaact tttttgtgaa ggcgttctgg agtacagcga 120  
 aatcaaggtg ggaattgttt taattccaaa tagggtggaa ccgcgagcta actctcgtcc 180  
 ctat 184

<210> 15  
 <211> 164  
 <212> DNA  
 <213> *Staphylococcus aureus*

<400> 15  
 atgtcacaaa cacattaatt ttacttgcct ttaaataatc tatcaattgt acagcgagtt 60  
 aaggatagt taagcttaac aataagattg gcgcaacgaa tcatttttaa ataaaagcga 120  
 gtgactacac taatttgggt ggaaccgcgg gttaactcgt ccca 164

<210> 16  
 <211> 207  
 <212> DNA  
 <213> *Streptococcus equi*

<400> 16  
 tttgtgataa actaaccaat aggaaagaaa atagcagggt tctgatctaa agcgagctcg 60  
 gggctggtga gagccgagt atggtactgc tgggtggcgc tttctctaaa gagtaggctc 120  
 aggtgtttgt agcttgcttg acatctgttt atcaacaaga tcaaatgaag taataaatta 180  
 ggggtggaacc gcgttttgac gccocta 207

<210> 17  
 <211> 163  
 <212> DNA  
 <213> *Streptococcus mutans*

<400> 17  
 gttaagaaa agagttttgt ggcgtttctg cagcgaacct gagagagtgt aagtcagggtg 60  
 aaacaaaata aaggactggc actttctctt ggctaatagc caagctaaca atcagataaa 120

tgaagtaata aattagggtg gaaccgcgtt tcaaacgccc cta 163

<210> 18  
 <211> 168  
 <212> DNA  
 <213> Streptococcus pneumoniae

<400> 18  
 atttttgata taatagtcag caggaaagaa agtcttatgg cgttcttcaa gcgagcttgg 60  
 gatagtgga gccaaagtag gcaaaataaa gggctggcgc tttctgtagt attttcaaaa 120  
 acaatgaagt aataaattag ggtggaaccg cgtttctgac gccctag 168

<210> 19  
 <211> 205  
 <212> DNA  
 <213> Streptococcus pyogenes

<400> 19  
 gctttatgct aaactagact ctaggaaaaa ggatgcaagt atcttatcta aagcgagtgc 60  
 ggggtagtta gagccgaatg gtaggactgc agattggcgc ttccgtttgg gcagtgtgat 120  
 taagtatat tgtcaatatt gcccaaaaag atactatata aatgaagtaa taaattaggg 180  
 tggaaccgcg ttttgacgcc cctag 205

<210> 20  
 <211> 51  
 <212> DNA  
 <213> Bacillus subtilis

<400> 20  
 ttgacatttg gtccatcttt ttatatgatc atttattata aaatatgttg c 51

<210> 21  
 <211> 438  
 <212> DNA  
 <213> Bacillus subtilis

<400> 21  
 attgatttat attacgaaga atattcgga ttgtatttaa aatcaaagcg ctttttagat 60  
 caaatggaaa gcatgaaaca tcttatgggt gaaaacaaaa gttgacattt ggtccatctt 120  
 tttatatgat catttattat taaatatgtt gcagtggagag aaagaagtac ttgcgtttac 180  
 ctcattgaaag cgaccttagg gcggtgtaag ctaaggatga gcacgcaacg aaaggcattc 240  
 ttgagcaatt ttaaaaaaga ggctgggatt ttgttctcag caactagggt ggaaccgcgg 300  
 gagaaactctc gtccctatgt ttgcggctgg caagcataga gacgggagtt ttttggttgc 360  
 tgccgcagtc aacttatgaa agaaaagtgg aggtgcttga aatgaatatt caagacatga 420  
 ttctaaccctt gcaaaaagc 438

<210> 22  
 <211> 438  
 <212> DNA  
 <213> *Bacillus subtilis*

<400> 22  
 attgatttat attacgaaga atattcggga ttgtatttaa aatcaaagcg ctttttagat 60  
 caaatggaaa gcatgaaaca tcttatgggt gaaaacaaaa gttgacattt ggtccatott 120  
 tttatatgat catttattat aaaatatgtt gcagtgaag aaagaagtag ttgcgtttac 180  
 ctcatgaaag cgaccttagg gcggtgtaag ctaaggatga gcacgcaacg aaaggcattc 240  
 ttgagcaatt ttaaaaaaga ggctgggatt ttgttctcag caactagggt ggaaccgcgg 300  
 gagaactctc gtccctatgt ttgcggctgg caagcataga gacgggagtt ttttggttgc 360  
 tgccgcagtc aacttatgaa agaaaagtgg aggtgcttga aatgaatatt caagacatga 420  
 ttctaacctt gcaaaagc 438

<210> 23  
 <211> 75  
 <212> DNA  
 <213> *Bacillus subtilis*

<400> 23  
 gcggaagtag ttcagtggta gaacaccacc ttgccaaggt gggggtcgcg gggtcgaatc 60  
 ccgtcttcg ctcca 75

<210> 24  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 24  
 attgatctag attacgaaga atattcggga ttgta 35

<210> 25  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 25  
 gggatatttaa ttaagctttt gcaaggtag aatca 35

<210> 26  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 26  
 ggctggggat ccgtcaacaa tggagg 26

<210> 27  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 27  
 ccgcggaagg ataaagcttc aagtaag 27

<210> 28  
 <211> 407  
 <212> DNA  
 <213> *Bacillus subtilis*

<400> 28  
 ggctggagat ctgtcaacaa tggaggatta aaaggcggcg ttgacacagg attttattta 60  
 tgttaaaaat gatatagctt catatgaaaa ggtaaagatt gagacaagta gaataticctt 120  
 acgttccaga gagctgatgg ccggtgaaaa tcagcacaga cggatatatc gaatacactc 180  
 atgaaccgct tttgcaacaa aagccggcca ggctttcagt agtgaaagaa cggacctgat 240  
 ccgttatcag gcaaagtgat aagacgaatg tttgcattct cttattagta ggggtggtacc 300  
 gcgataatca atcgtccctt cgtgtaaacg aaggggcggt ttttatttta attaaaaaag 360  
 gagctttatc ttatgactaa cttacttgaa gacttatoct tccgcgg 407

<210> 29  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 29  
 ggctggggat ccgtcaacaa tggagg 26

<210> 30  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 30  
ccgcggaagg ataaagcttc aagtaag

27

<210> 31  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 31  
taatacgact cactatagga ggggtagcg

29

<210> 32  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 32  
ggaggggtag cg

12

<210> 33  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 33  
tgggtggaggg gggcagattc g

21



<210> 34  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 34  
 taatacgact cactatagcg gaagtagttc agtgg 35

<210> 35  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 35  
 gcggaagtag ttcagtgg 18

<210> 36  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 36  
 tggagcggaa gacgggattc gaac 24

<210> 37  
 <211> 85  
 <212> DNA  
 <213> Bacillus subtilis

<400> 37  
 ggaggggtag cgaagtggct aaacgcggcg gactgtaaat ccgctccctc agggttcggc 60  
 agttcgaatc tgccccctc cacca 85